

CITY OF ELKHART, INDIANA
INDUSTRIAL WASTE QUESTIONNAIRE

SECTION A. GENERAL INFORMATION (Type or Print, Please)

1. Company Name NIBCO INC.
2. Mailing Address P. O. Box 1167 ELKHART, IN 46515
3. Address of Premises 500 SIMPSON AVE.
4. Name and Title of Signing Official Jack Kunkel, plant manager
5. Wastewater discharges to:
City sewer system X
Private septic system _____
6. If your facility discharges to the City sewer system, check the types of discharges:
X Sanitary X Wash water X Rinse water
X Cooling water X Process water _____ Scrubber water
_____ Other _____

Note: If your facility discharges only to a private septic system and not to the City sewer system, or if only sanitary sewage is discharged to the City sewer system, it is only necessary to fill out Section A of this questionnaire. Otherwise, complete entire questionnaire.

7. Contact Official

Name WALT DINTAMAN
Title MAINTENANCE ENGINEER
Address NIBCO INC. 500 SIMPSON AVE ELKHART, IN 46516
Phone Number 295-3000 or 295-3271

The information contained in this questionnaire is familiar to me and to the best of my knowledge and belief, such information is true, complete, and accurate.

12/20/83
Date

Jack L Kunkel
Signature of Official

SECTION B. PRODUCT OR SERVICE INFORMATION

1. Brief description of manufacturing or service activity on premises:

NIBCO, Elkhart Division, is primarily a manufacturer of
copper fittings used in copper piping systems for plumbing,
heating and air conditioning.

2. Principal Raw Materials Used:

copper tube and copper tube blanks

3. Catalysts, Intermediates:

none

4. Principal Product or Service (use Standard Industrial Classification
Manual if appropriate): 3463

5. Appended to this questionnaire is a list of Standard Industrial
Classification (SIC) codes for industries currently or potentially
subject to USEPA pretreatment regulations. List SIC codes for
each of your processes that are subject to USEPA pretreatment
regulations.

3463 Nonferrous forgings

3325 Steel Foundry (experimental only)

3544 Special dies and tools, die sets, jigs and fixtures and industrial molds
(used for our own production facilities only)

3471 Chrome Plating (done in connection with 3544) (no discharge see 40CFR413.10)

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. Type of Discharge: _____ Batch X Continuous _____ Both
 continuous during first (day) shift
 For batch discharges, list types, average number of batches/24 hrs.
 and volume (gallons) per batch. _____
2. Is there a scheduled shutdown? no
 When? _____
3. Is production seasonal? no
 If yes, explain indicating months(s) of peak production.

4. Average number of employees per shift: 212 1st; 44 2nd; 7 3rd
5. Shift start times: 7:00 a.m. 1st; 3:30 p.m. 2nd; 12 midnight 3rd
 except 10:30 p.m. Sun.
6. Shifts normally worked each day of the week:

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1st		X	X	X	X	X	
2nd		X	X	X	X	X	
3rd	X	X	X	X	X		
7. Describe any wastewater treatment equipment or processes in use: _____
A Cyclone type filter is used to remove copper solids
from the copper furnishing process waste water. (95%
efficiency down to 5 microns)

SECTION D. WATER CONSUMPTION AND LOSS

1. Raw Water Sources:

<u>Source</u>	<u>Quantity</u>
city water	3911 gallons per day
wells	113,197 gallons per day
	gallons per day
	gallons per day

2. Water treatment processes in use:

- _____ Chemical coagulation, including use of alum, ferric chloride, polymers, etc.
- _____ Lime softening
- _____ Resin (ion exchange) water softening
- _____ Filtration
- _____ Chemical (chlorine or ozone) disinfection
- _____ Others _____

3. List Water Consumption in Plant:

Cooling Water	110,857	gallons per day	
Boiler Feed **	653	gallons per day	890
Process Water **	1687	gallons per day	2139
Sanitary System*	3911	gallons per day	
Contained in Product	0	gallons per day	
Other ()		gallons per day	

} 3029 GPD
PER WORK
DAY

*Sanitary flow can be estimated at 10 gpd per employee.

**This flow is primarily on working days only.

4. List average volume of discharge or water loss to:

City Wastewater Sewer	<u>16,515</u>	gallons per day
Septic Tank Discharge	<u>0</u>	gallons per day
Surface Discharge	<u>100, 593</u>	gallons per day
Waste Hauler	<u>0</u>	gallons per day
Evaporation	<u>not calculated</u>	gallons per day
Contained in Product	<u>0</u>	gallons per day

5. Is Discharge to Sewer: Intermittent X Steady
During first (day) shift 7:00 a.m. to 3:30 p.m. for process water.

6. List average water usage for SIC Processes itemized in Section B-5 above:

<u>Regulated</u> <u>SIC No.</u>	<u>Brief Process Description</u>	<u>Average Water</u> <u>Consumption(GPD)</u>
3463	copper cleaning	3029 GPD
3325	Steel Foundry	0
3544	Making dies, molds, punches	0
3471	Chrome Plating	0

SECTION E. SEWER CONNECTION AND DISCHARGE INFORMATION

1. List plant sewer outlets and flow: (assign sequential reference number to each sewer starting with No. 1).

<u>Reference</u> <u>No.</u>	<u>Descriptive Location of Sewer</u> <u>Connection or Discharge Point</u>	<u>Avg.</u> <u>Flow</u> <u>(gpd)</u>
<u>1 on A-WD259-1</u>	<u>Sewer runs west from south west</u> <u>corner of building.</u>	<u>13,140</u>
<u>2 on A-WD259-1</u>	<u>Sewer runs west from a point 100'</u> <u>south of north west corner of building.</u>	<u>3370</u>

2. Attach a scaled drawing or dimensioned sketch of the industrial complex showing location of sewer referenced in E-1 above and location of the SIC process described in Section D-5. Show location of monitoring manhole, if any, and other possible sampling points for sewers and SIC process effluents. Indicate how City industrial monitoring staff can gain access to the sampling points. For reference and field orientation buildings, streets, alleys, and other pertinent physical structures should be included.

See Drawing: A-WD259-1

3. Is plant required to prepare a Spill Prevention Control and Countermeasure (SPCC) Plan per 40 CFR 112 or a RCRA Contingency Plan?
RCRA If report has been prepared, attach copy. Copy attached.
X If report is required, but has not yet been prepared, indicate date when it will be submitted. _____

SECTION F. PRIORITY POLLUTANT INFORMATION

1. Please indicate by placing an "X" in the appropriate box by each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity or generated as a byproduct. Some compounds are known by other names. Please refer to Appendix A for those compounds which have an asterisk(*).

ITEM NO.	CHEMICAL COMPOUND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT	ITEM NO.	CHEMICAL COMPOUND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT
1.	ammonia	X				47.	chlorobenzene		X		
2.	asbestos (fibrous)	X				48.	chloroethane*		X		
3.	cyanide (total)		X			49.	2-chloroethylvinyl ether		X		
4.	antimony (total)			X		50.	chloroform*		X		
5.	arsenic (total)		X			51.	chloromethane*		X		
6.	beryllium (total)		X			52.	2-chloronaphthalene		X		
7.	cadmium (total)		X			53.	2-chlorophenol*		X		
8.	chromium (total)				X	54.	4-chlorophenylphenyl ether*		X		
9.	copper (total)				X	55.	chrysene*		X		
10.	lead (total)				X	56.	4,4'-DDD*		X		
11.	mercury (total)		X			57.	4,4'-DDE*		X		
12.	nickel (total)	X				58.	4,4'-DDT*		X		
13.	selenium (total)	X				59.	dibenzo(a,h)anthracene*		X		
14.	silver (total)		X			60.	dibromochloromethane*		X		
15.	thallium (total)		X			61.	1,2-dichlorobenzene*		X		
16.	zinc (total)			X		62.	1,3-dichlorobenzene*		X		
17.	acenaphthene		X			63.	1,4-dichlorobenzene*		X		
18.	acenaphthylene		X			64.	3,3'-dichlorobenzidine		X		
19.	acrolein		X			65.	dichlorodifluoromethane*		X		
20.	acrylonitrile		X			66.	1,1-dichloroethane*		X		
21.	aldrin		X			67.	1,2-dichloroethane*		X		
22.	anthracene		X			68.	1,1-dichloroethene*		X		
23.	benzene		X			69.	trans-1,2-dichloroethene*		X		
24.	benzidine		X			70.	2,4-dichlorophenol		X		
25.	benzo(a)anthracene*		X			71.	1,2-dichloropropane*		X		
26.	benzo(a)pyrene*		X			72.	(cis & trans)1,3-dichloropropene*		X		
27.	benzo(b)fluoranthene		X			73.	dieldrin		X		
28.	benzo(g,h,i)perylene*		X			74.	diethyl phthalate*		X		
29.	benzo(k)fluoranthene*		X			75.	2,4-dimethylphenol*		X		
30.	a-BHC (alpha)		X			76.	dimethyl phthalate		X		
31.	b-BHC (beta)		X			77.	di-n-butyl phthalate		X		
32.	d-BHC (delta)		X			78.	di-n-octyl phthalate*		X		
33.	g-BHC* (gamma)		X			79.	4,6-dinitro-2-methylphenol*		X		
34.	bis(2-chloroethyl)ether*		X			80.	2,4-dinitrophenol		X		
35.	bis(2-chloroethoxy)methane*		X			81.	2,4-dinitrotoluene		X		
36.	bis(2-chloroisopropyl)ether*		X			82.	2,6-dinitrotoluene		X		
37.	bis(chloromethyl)ether*		X			83.	1,2-diphenylhydrazine*		X		
38.	bis(2-ethylhexyl)phthalate*		X			84.	endosulfan I*		X		
39.	bromodichloromethane*		X			85.	endosulfan II*		X		
40.	bromoform*		X			86.	endosulfan sulfate		X		
41.	bromomethane*		X			87.	endrin		X		
42.	4-bromophenylphenyl ether*		X			88.	endrin aldehyde		X		
43.	butylbenzyl phthalate		X			89.	ethylbenzene		X		
44.	carbon tetrachloride*		X			90.	fluoranthene		X		
45.	chlordane		X			91.	fluorene*		X		
46.	4-chloro-5-methylphenol*		X			92.	heptachlor		X		
						93.	heptachlor epoxide		X		

SECTION F. PRIORITY POLLUTANT INFORMATION (CON'T)

ITEM NO.	CHEMICAL COMPOUND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT	ITEM NO.	CHEMICAL COMPOUND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT
94.	hexachlorobenzene*		X			112.	PCB-1248*		X		
95.	hexachlorobutadiene		X			113.	PCB-1254*		X		
96.	hexachlorocyclopentadiene*		X			114.	PCB-1260*		X		
97.	hexachloroethane*		X			115.	pentachlorophenol		X		
98.	indeno(1,2,3-cd)pyrene*		X			116.	phenanthrene		X		
99.	isophorone*		X			117.	phenol	X			
100.	methylene chloride*		X			118.	pyrene		X		
101.	naphthalene		X			119.	2,3,7,8-tetrachlorodibenzo-p-dioxin*		X		
102.	nitrobenzene		X			120.	1,1,2-tetrachloroethane*		X		
103.	2-nitrophenol*		X			121.	tetrachloroethene*		X		
104.	4-nitrophenol*		X			122.	toluene*		X		
105.	n-nitrosodimethylamine*		X			123.	toxaphene		X		
106.	n-nitrosodipropylamine*		X			124.	1,2,4-trichlorobenzene		X		
107.	n-nitrosodiphenylamine*		X			125.	1,1,1-trichloroethane*		X		
108.	PCB-1016*		X			126.	1,1,2-trichloroethane*		X		
109.	PCB-1221*		X			127.	trichloroethene*				X
110.	PCB-1232*		X			128.	trichlorofluoromethane*		X		
111.	PCB-1242*		X			129.	2,4,6-trichlorophenol		X		
						130.	vinyl chloride*		X		

2. For chemical compounds in F-2 above which are indicated to be "Known Present," please list and provide the following data for each: (attach additional sheets if needed).

[illegible]

NOTE: ZINC IS SOMETIMES PRESENT AS A MINOR IMPURITY IN COPPER.

3. List any other chemicals known or anticipated to be present in the discharge.

Soap, Alkaline Cleaner, Bismuth,

Roto-brite L-552 (a proprietary product containings citric acid),

Sodium Persulfate, Acetic Acid, Phosphoric Acid,

Nitric Acid

4. Describe, what if any, laboratory analyses have been conducted on process waste streams in the plant, including which streams were sampled, what parameters were measured, and frequency and type of samples. (The baseline report referred to in G2 below can be referenced in answering this question.)

see attached sheet PAGE -13-

SECTION G. PRETREATMENT

1. Is this plant subject to an existing Pretreatment Standard?

3463 copper forming (40 CFR 468)

2. Is this plant required to submit a baseline report per 40 CFR 403.12? yes If a baseline report has been prepared, attach a copy to this questionnaire. Copy attached. NO If a baseline report is required, but has not yet been prepared, indicate date that it will be submitted. Feb. 10, 1984

3. If subject to Federal Pretreatment Standards, are the standards being met on a consistent basis? (The baseline report can be referred to in answering this question.)

We do not meet the copper forming standards at the

present time. (40 CFR 468)

4. Are additional pretreatment facilities and/or operation and maintenance required to meet Pretreatment Standards? If additional pretreatment and/or operation and maintenance are required, list the schedule by which they will be provided. (The baseline report can be referred to in answering this question.)

Nov. 24, 1983 Compare costs of DMP system vs Advance Chemical Systems
vs NIBCO designed system

Dec. 22, 1983 Finalize decision on which system to adopt

Jan. 15, 1984 Finalize design

Jan. 30, 1984 Write purchase order to vendor or if NIBCO design,
order long lead time items

Feb. 10, 1984 File baseline report for copper forming category

April 30, 1984 File permit application

June 1, 1984 System installed

Sept. 1, 1984 System debugged and operational

5. Describe residuals (sludges, precipitates, etc.) that are produced or result at your facility and the methods employed to dispose of the residuals. List names of waste haulers, if applicable.

a) waste oil from degreasing operation EPA

waste N^O F001 D008

Reclaimed

McKesson EnviroSystems KYD053348108

Chem-Resource Recovery IND088737275

Chemsoly INC IND980590947

b) Waste Chromic Acid

Nelson Industrial Services

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